

# Job Title: Blanket and Beryllium Engineer IO0975

Req ID 1762 - Posted 15/05/2020 - (France, 13067 St Paul Lez Durance Cedex) - **Engineering of Systems - New Posting**

The ITER Organization brings together people from all over the world to be part of a thrilling human adventure in southern France—building the ITER Tokamak. We require the best people in every domain.

We offer challenging full-time assignments in a wide range of areas and encourage applications from candidates with all levels of experience, from recent graduates to experienced professionals. Applications from under-represented ITER Members and from female candidates are strongly encouraged as the ITER Organization supports diversity and gender equality in the workplace.

Our working environment is truly multi-cultural, with 29 different nationalities represented among staff. The ITER Organization Code of Conduct gives guidance in matters of professional ethics to all staff and serves as a reference for the public with regards to the standards of conduct that third parties are entitled to expect when dealing with the ITER Organization.

The south of France is blessed with a very privileged living environment and a mild and sunny climate. The ITER Project is based in Saint Paul-lez-Durance, located between the southern Alps and the Mediterranean Sea—an area offering every conceivable sporting, leisure, and cultural opportunity.

To see why ITER is a great place to work, please look at this video

**Application deadline:** 26/06/2020

**Domain:** Engineering

**Department:** Engineering Design

**Division:** Internal Components

**Section:** Blanket

**Job Family:** Project Engineering

**Job Role:** Engineer - 2

**Job Grade:** P3

**Language requirements:** Fluent in English (written & spoken)

**Contract duration:** Up to 5 years

## **Purpose**

In this role you will monitor the manufacture of the Blanket First Wall Panels, specifically for beryllium related matters. Liaising with internal and external stakeholders including through the ITER Beryllium Management Committee, you will be the key point of contact regarding any queries and technical documentation concerning beryllium in relation to the Blanket First Wall. Your role will include beryllium related contract management to ensure that ITER's requirements are met. Additionally, you will be involved in procurement activities leading to installation and commissioning of the components, final integration and operation.

## **Background**

This position will be within the Blanket Section in the Internal Components Division of the Engineering Design Department; the Blanket Section is responsible for the design and

procurement of the different ITER Blanket components including the plasma-facing First Wall Panels which are armored with beryllium tiles.

## **Major Duties/Roles & Responsibilities**

---

- Provides support in following up the Blanket First Wall Procurement Arrangements, including reviewing relevant documents, participating in meetings as needed, managing risk assessments and providing specific guidance to internal/external stakeholders;
- Informs the Domestic Agencies (who are responsible for procuring the Blanket First Wall panels) of the ITER requirements and provides guidance on packaging and cleaning approaches;
- Coordinates audits related to beryllium contamination at the suppliers as needed;
- Monitors beryllium-related contracts (including producing technical specifications as required) linked to the First Wall, including on smearing analysis, personal air sampler provision and maintenance, and cleaning procedures to be specified and validated in collaboration with Procurement and Contracts Division;
- Takes responsibility for producing and/or reviewing all Blanket relevant technical documentation related to beryllium;
- Collaborates with the ITER Beryllium Management Committee on all aspects linked to beryllium management and handling for First Wall panels;
- Ensures that the ITER requirements are included in the receipt, storage, testing and assembly procedures of the Blanket First Wall Panels, by interacting with Buildings and Assembly teams;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.

Note: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization.

## **Measure of Effectiveness**

---

- Supports First Wall Procurement Arrangements activities including effective document monitoring and input provision to the Domestic Agencies;
- Monitors contract(s) on First Wall beryllium so that the tasks are performed effectively and on time within the given budget;
- Is responsible for following up on all beryllium related matters for the Blanket, including properly monitoring all relevant beryllium technical documentation;
- Maintains effective communication with other groups within the ITER Beryllium Management Committee (including Assembly, Building, Health & Safety, Human Resources, Legal Affairs) and performs collaborative tasks.

## **Experience & Profile**

---

- **Professional Experience:**
  - At least 8 years' experience as engineer, responsible for managing requirements and procurement for plasma facing components and/or beryllium.
- **Education:**
  - Master's degree or equivalent in Materials or a relevant Science and Engineering discipline;

- The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
- **Language requirements:**
  - Fluent in English (written and spoken).
- **Technical Competencies and Demonstrated Experience in:**
  - Working on fusion systems or devices using plasma facing components;
  - Project and contract management and procurement follow up;
  - Design, manufacturing and operation of beryllium components, and beryllium management procedures;
  - Dealing with beryllium, ideally in areas such as manufacturing, handling, cleaning, smearing and analysis, disposal;
  - Production of risk assessment would be a plus.
- **Behavioral Competencies:**
  - Collaborate: Ability to facilitate dialogue with a wide variety of contributors and stakeholders;
  - Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;
  - Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
  - Manage Complexity: Ability to analyze multiple and diverse sources of information to understand problems accurately before moving to proposals;
  - Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

---

***The following important information shall apply to all jobs at ITER Organization:***

- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct;
- ITER Core technical competencies of 1) Nuclear Safety, environment, radioprotection and pressured equipment 2) Occupational Health, safety & security 3) Quality assurance processes. Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members;
- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
- May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- Informs the IO Director-General, Domain Head, or Department/Office Head of any important and urgent issues that cannot be handled by line management and that may jeopardize the achievement of the Project's objectives.